

### **Amendments to the Claims:**

This listing of claims replaces all prior versions and listings of claims in this application.

### **Listing of Claims:**

1. (Currently Amended) An aqueous ready to use semen extender composition comprising:
  - (a) about 0.1 wt.% to about 6 wt.% phospholipid obtained from a non-animal source comprising lecithin;
  - (b) about 0.0001 wt.% to about 1 wt.% of anionic surfactant to reduce ice crystal formation during freezing of the composition;
  - (c) about 0.5 wt.% to about 3 wt.% carbohydrate;
  - (d) about 3 wt.% to about 14 wt.% freeze agent; and
  - (e) biological buffer to provide the composition with a pH of about 6.9 to about 7.5,and wherein the composition comprises a sufficient amount of water so that the composition exhibits an osmolality of about 250 mOsM to about 350 mOsM, wherein the composition is substantially free of animal products.
2. (Previously Presented) An aqueous ready to use semen extender composition according to claim 1, wherein the composition comprises at least about 90 wt.% water.
3. (Canceled)
4. (Previously Presented) An aqueous ready to use semen extender composition according to claim 1, further comprising:
  - (a) antioxidant.
5. (Previously Presented) An aqueous ready to use semen extender composition according to claim 4, wherein the antioxidant comprises at least one of vitamin E, vitamin C, vitamin A, BHA, BHT, or derivatives thereof.
6. (Canceled)

7-8. (Canceled)

9. (Currently Amended) An aqueous ready to use semen extender composition according to claim 1, wherein the anionic surfactant comprises at least one of sodium lauryl sulfate, sodium laureth sulfate, ~~sorbitan esters, polyglycerol esters, glycerol esters, and~~ or mixtures thereof.

10. (Canceled)

11. (Previously Presented) An aqueous ready to use semen extender composition according to claim 1, wherein the freeze agent comprises at least one of glycerol or dimethylsulfoxide.

12. (Canceled)

13. (Canceled)

14. (Previously Presented) An aqueous ready to use semen extender composition according to claim 1, further comprising semen.

15-20. (Canceled)

21. (Currently Amended) A method for manufacturing an aqueous ready to use semen extender composition, the method comprising a step of:

(a) mixing semen extender composition components to provide a semen extender composition having an osmolality of about 250 mOsM to about 350 mOsM and a pH of about 6.9 to about 7.5, the semen extender composition components comprising:

(i) about 0.1 wt.% to about 6 wt.% phospholipid obtained from a non-animal source comprising lecithin;

(ii) about 0.0001 wt.% to about 1 wt.% of anionic surfactant to reduce ice crystal formation during freezing of the composition,

(iii) about 0.5 wt.% to about 3 wt.% carbohydrate;

- (iv) about 3 wt.% to about 14 wt.% freeze agent;
- (v) water; and
- (vi) biological buffer, wherein the composition is substantially free of animal products.

22. (Previously Presented) A method according to claim 21, wherein the freeze agent comprises at least one of glycerol or dimethylsulfoxide.

23. (Canceled)

24. (Previously Presented) An aqueous ready to use semen extender composition according to claim 1, wherein the composition comprises at least about 1 IU/ml antioxidant.

25. (Previously Presented) An aqueous ready to use semen extender composition according to claim 1, wherein the composition comprises at least about 5 IU/ml antioxidant.

26. (Previously Presented) An aqueous ready to use semen extender composition according to claim 1, wherein the composition comprises about 1 wt.% to about 3 wt.% antioxidant.

27. (Canceled)

28. (Previously Presented) A method according to claim 21, wherein the composition comprises at least about 1 IU/ml antioxidant.

29. (Previously Presented) A method according to claim 21, wherein the composition comprises at least about 5 IU/ml antioxidant.

30. (Previously Presented) A method according to claim 21, wherein the composition comprises about 1 wt.% to about 3 wt.% antioxidant.

31. (Previously Presented) A method according to claim 28, wherein the antioxidant comprises at least one of vitamin E, vitamin C, vitamin A, BHA, BHT, or derivatives thereof.

32. (Canceled)

33. (Currently Amended) A method according to claim 21, wherein the anionic surfactant comprises at least one of sodium lauryl sulfate, sodium laureth sulfate, ~~sorbitan esters, polyglycerol esters, glycerol esters, and~~ or mixtures thereof.

34. (Canceled)

### **Support for Amendment**

Independent claims 1 and 21 are amended to incorporate the features of dependent claims 6 and 13. These changes are additionally supported by the specification at, for example, page 3, 8-22, and page 5, lines 3-12.

Claims 9 and 33 are amended so that the list of anionic surfactant is consistent with the specification at, for example, page 6, lines 4-21.

Claims 6, 10, 13, and 34 are cancelled by this amendment.

No new matter is introduced by this amendment and entry there of is requested. Upon entry, claims 1, 2, 4, 5, 9, 11, 14, 21, 22, 24-26, 28-31, and 33 are active in this application.